Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
ECC-LI TUNGSTEN

DATE RECEIVED: 07/03/07 LVL LOT # :0707L516

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
5601-FSS-PC-1041-1						
ARSENIC, TOTAL	001	S	07L0299	06/15/07	07/05/07	07/05/07
ARSENIC, TOTAL	001 REP	S	07L0299	06/15/07	07/05/07	07/05/07
ARSENIC, TOTAL	001 MS	S	07L0299	06/15/07	07/05/07	07/05/07
ARSENIC, TOTAL	001 MSD	S	07L0299	06/15/07	07/05/07	07/05/07
LEAD, TOTAL	001	S	07L0299	06/15/07	07/05/07	07/05/07
LEAD, TOTAL	001 REP	S	07L0299	06/15/07	07/05/07	07/05/07
LEAD, TOTAL	001 MS	S	07L0299	06/15/07	07/05/07	07/05/07
LEAD, TOTAL	001 MSD	S	07L0299	06/15/07	07/05/07	07/05/07
LAB QC:						
ARSENIC LABORATORY	LC1 BS	S	07L0299	N/A	07/05/07	07/05/07
ARSENIC, TOTAL	MB1	S	07L0299	N/A	07/05/07	07/05/07
LEAD LABORATORY	LC1 BS	S	07L0299	N/A	07/05/07	07/05/07
LEAD, TOTAL	MB1	S	07L0299	N/A	07/05/07	07/05/07

LIONVILLE LABORATORY INC.

Analytical Report

Client : ECC-LI TUNGSTEN
LVL# : 0707L516

W.O.# : 60050-010-001-9999-00
Date Received : 07-03-07

METALS CASE NARRATIVE

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory (LvLI) certifies that all test results meet the requirements of NELAC except as noted below.

All soil samples are reported on a dry weight basis unless requested by the client, required by the method, or noted otherwise.

1. This narrative covers the analysis of 1 soil sample.

2. The sample was prepared and analyzed in accordance with methods checked on the attached glossary.

3. All analyses were performed within the required holding times.

4. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within control limits.

5. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits.

6. All preparation/method blanks were within method criteria. Refer to the Inorganics Method Blank Data Summary.

7. All ICP Interference Check Standards were within control limits.

8. All laboratory control samples (LCS) were within the 80-120% control limits. Refer to the Inorganics Laboratory Control Standards Report.

9. All matrix spike (MS) and matrix spike duplicate (MSD) recoveries were within the 75-125% control limits. Refer to the Inorganics Accuracy Report.

10. All MSs and MSDs were within the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Matrix Spike Duplicate Report.

11. All duplicate analyses were within the 20% Relative Percent Difference (RPD) control limits.

Refer to the Inorganics Precision Report.

12. For the purposes of this report, the data has been reported to the Instrument Detection Limit (IDL). Values between the IDL and the Practical Quantitation Limit (PQL) are acquired in a region of less-certain quantification.

13. LvLI is NELAP accredited by the state of Pennsylvania and holds over 20 additional state accreditations. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

7/9/07
Date

jjw/m07-516

LVLI
LIONVILLE LABORATORY INC.

METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this Lot#: 0706L516
WE JM 7/9/07

Leaching Procedure: __1310 __1311 __1312 __Other:_____

CLP Metals __ Digestion and __ Analysis Methods: __ILM03.0 __ILM04.0

Metals Digestion Methods: __3005A __3010A __3015 __3020A X3050B __3051 __200.7 __SS17
__Other: _____

Metals Analysis Methods

	SW846		EPA		STD MTD	EPA OSWR	USATHAMA
Aluminum	__6010B		__200.7				__99
Antimony	__6010B	__7041 [5]	__200.7	__204.2			__99
Arsenic	X6010B	__7060A [5]	__200.7	__206.2	__3113B		__99
Barium	__6010B		__200.7				__99
Beryllium	__6010B		__200.7				__99
Bismuth	__6010B [1]		__200.7 [1]			__1620	__99
Boron	__6010B		__200.7				__99
Cadmium	__6010B	__7131A [5]	__200.7	__213.2			__99
Calcium	__6010B		__200.7				__99
Chromium	__6010B	__7191 [5]	__200.7	__218.2			__SS17
Cobalt	__6010B		__200.7				__99
Copper	__6010B	__7211 [5]	__200.7	__220.2			__99
Iron	__6010B		__200.7				__99
Lead	X6010B	__7421 [5]	__200.7	__239.2	__3113B		__99
Lithium	__6010B	__7430 [4]	__200.7			__1620	__99
Magnesium	__6010B		__200.7				__99
Manganese	__6010B		__200.7				__99
Mercury	__7470A [3]	__7471A [3]	__245.1 [2]	__245.5 [2]			__99
Molybdenum	__6010B		__200.7				__99
Nickel	__6010B		__200.7				__99
Potassium	__6010B	__7610 [4]	__200.7	__258.1 [4]			__99
Rare Earths	__6010B [1]		__200.7 [1]			__1620	__99
Selenium	__6010B	__7740 [5]	__200.7	__270.2	__3113B		__99
Silicon	__6010B [1]		__200.7			__1620	__99
Silica	__6010B		__200.7			__1620	__99
Silver	__6010B	__7761 [5]	__200.7	__272.2			__99
Sodium	__6010B	__7770 [4]	__200.7	__273.1 [4]			__99
Strontium	__6010B		__200.7				__99
Thallium	__6010B	__7841 [5]	__200.7	__279.2	__200.9		__99
Tin	__6010B		__200.7				__99
Titanium	__6010B		__200.7				__99
Uranium	__6010B [1]		__200.7 [1]			__1620	__99
Vanadium	__6010B		__200.7				__99
Zinc	__6010B		__200.7				__99
Zirconium	__6010B [1]		__200.7 [1]			__1620	__99

Other:_____ Method:_____

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LCS = Laboratory Control Sample.
NC = Not calculated.

ANALYTICAL METAL METHODS

1. Not included in the method element list.

2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, approximately 0.3 grams of sample is taken to a final volume of 50 mL (including all reagents).

3. Flame AA.

4. Graphite Furnace AA.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 07/09/07

CLIENT: ECC-LI TUNGSTEN LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	5601-FSS-PC-1041-1	Arsenic, Total	3.5	MG/KG	0.44	1.0
		Lead, Total	6.0	MG/KG	0.35	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 07/09/07

CLIENT: ECC-LI TUNGSTEN LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	07L0299-MB1	Arsenic, Total	0.39 u	MG/KG	0.39	1.0
		Lead, Total	0.35	MG/KG	0.31	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 07/09/07

CLIENT: ECC-LI TUNGSTEN

LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-001	5601-FSS-PC-1041-1	Arsenic, Total	205	3.5	214	94.1	1.0
		Arsenic, Total MSD	194	3.5	214	89.1	1.0
		Lead, Total	57.9	6.0	53.5	97.0	1.0
		Lead, Total MSD	54.6	6.0	53.5	90.8	1.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 07/09/07

CLIENT: ECC-LI TUNGSTEN LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKE#1 %RECOV	SPIKE#2 %RECOV	%DIFF
-001	5601-FSS-PC-1041-1	Arsenic, Total	94.1	89.1	5.4
		Lead, Total	97.0	90.8	6.6

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 07/09/07

CLIENT: ECC-LI TUNGSTEN LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(RBP)
-001REP	5601-FSS-PC-1041-1	Arsenic, Total	3.5	3.3	5.9	1.0
		Lead, Total	6.0	6.2	3.3	1.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 07/09/07

CLIENT: ECC-LI TUNGSTEN LVL LOT #: 0707L516

WORK ORDER: 60050-010-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	07L0299-LC1	Arsenic, LCS	863	952	MG/KG	90.6
		Lead, LCS	221	238	MG/KG	92.9

Lionville Laboratory Use Only

0707L516

Custody Transfer Record/Lab Work Request

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

LvLI

ECC-LI TUNGSTEN

Client: Environmental Chemical Corp.

Est. Final Proj. Sampling Date:

Project#: 60050-010-001-9999-00

Project Contact/Phone#:

Lionville Laboratory Project Manager: Judy Stone

QC: SW846 Del: STD TAT: 3 days

Date Rec'd: 7.3.07 Date Due: 7-6-07

Refrigerator #	2 (A)
#/Type Container (Liquid / Solid)	1g1
Volume	
Preservatives	250 / —
ANALYSES REQUESTED →	ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Total Metal As, Pb; CN

Lionville Laboratory Use Only

MATRIX CODES:
S- Soil
SE- Sediment
SO- Solid
SL- Sludge
W- Water
O- Oil
A- Air
DS- Drum Solids
DL- Drum Liquids
L- EP/TCLP Leachate
WI- Wipe
X- Other
F- Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	Total Metal As, Pb (MA8TO MP6TO)	CN
001	5601-FSS-PC-1041-1			S	6.15.07	14:35					X	

Special Instructions:

Special Instructions:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
[signature]	[signature]	7.3.07	0935

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL REWRITTEN		"COMPOSITE WASTE"	

00000001

Environmental Chemical Corporation
1746 Cole Blvd.
Bldg. 21, Suite 350
Lakewood, CO 80401
Phone: (303) 298-7607
Fax: (303) 298-7837

COC Number:

0000000013

Customer Name: ECC – LI Tungsten
Address: 63 Herb Hill Road, Glen Cove, NY 11542

Contact: Theodore Johnson
Phone: (303) 472 - 8834
Fax: (516) 665- 8531

ECC Project Manager: Phil O'Dwyer
Address: 63 Herb Hill Road, Glen Cove, NY 11542

Phone: (614) 402 - 2020
Customer Project Name: Li Tungsten

SAMPLE NUMBER	DATE	TIME	TYPE	CLIENT SAMPLE IDENTIFIER	TESTS	CONTAINER(S)	MATRIX
5601 -FSS-PC-1041-1	6/15/2007	14:35	FSS	Parcel C	Total Arsenic, Total Lead	1 glass jar	Soil
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							

Notes:
Ship to: Lionville
208 Welsh Pool Rd, Exton, PA 19341
Phone: 610-280-3000
Request Turnaround Time: 3 Day

Samples cooled below 4 C
~~HNO3 TH~~

Laboratory Receipt Information
Cooler/Container Intact? Yes ✓ No ____
Samples Received At Below 4 C? Yes ✓ No ____
Samples Containers Intact? Yes ✓ No ____
Cooler/Container Custody Seal? Yes ✓ No ____

CUSTODY TRANSFER RECORD

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Print:Ted Johnson Sign: TJ	ECC	7/2/2007	16:10	Print:			
Print:	Fed Ex	7.3.07	0935	Print: DSmith	LVLI	7.3.07	0935
Print:				Print:			